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(54) OPTICAL RETARDATION FILM

## (57) Abstract:

PROBLEM TO BE SOLVED: To provide an optical retardation film of which the optical retardation gets smaller when a wavelength for measurement gets shorter while using only one sheet of the film.

SOLUTION: The optical retardation film is composed of a sheet of a polymer oriented film utilizing a polymer material containing a liquid crystal and is characterized by having retardation at 450 nm and 550 nm

wavelengths satisfying following inequalities  $R(450)/R(550) < 1$  and/or  $K(450)/K(550) < 1$ . (In the inequalities,  $R(450)$  and  $R(550)$  are retardation in a plane of the polymer oriented film at 450 nm and 550 nm

wavelengths respectively and  $K(450)$  and  $K(550)$  are values calculated with an equation  $K = [nz - (nx + ny)/2] \times d$  of the polymer

oriented film at 450 nm and 550 nm

wavelengths respectively (in the equation  $nx$ ,  $ny$ ,  $nz$  are three dimensional refractive indexes of the polymer oriented film corresponding to refractive indexes in the  $x$ -,  $y$ -, and  $z$ -axes directions respectively and  $d$  is film thickness).

$R(450)/R(550) < 1$   
 $K(450)/K(550) < 1$

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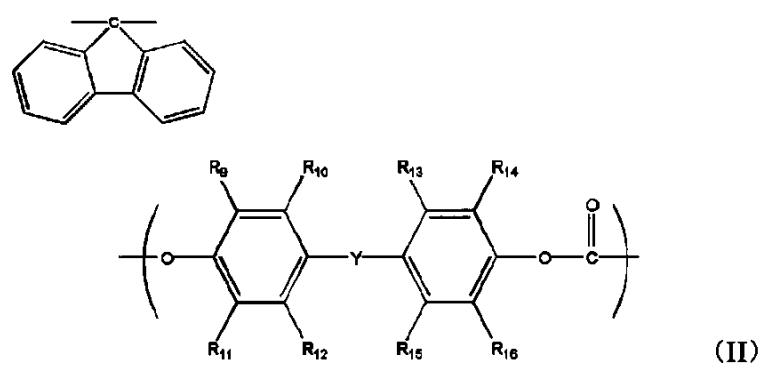
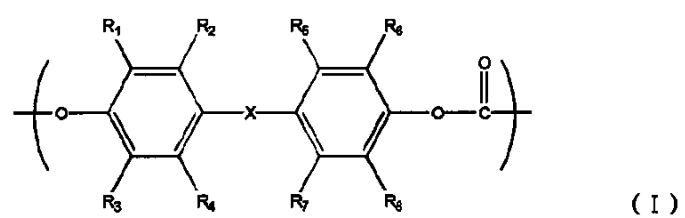
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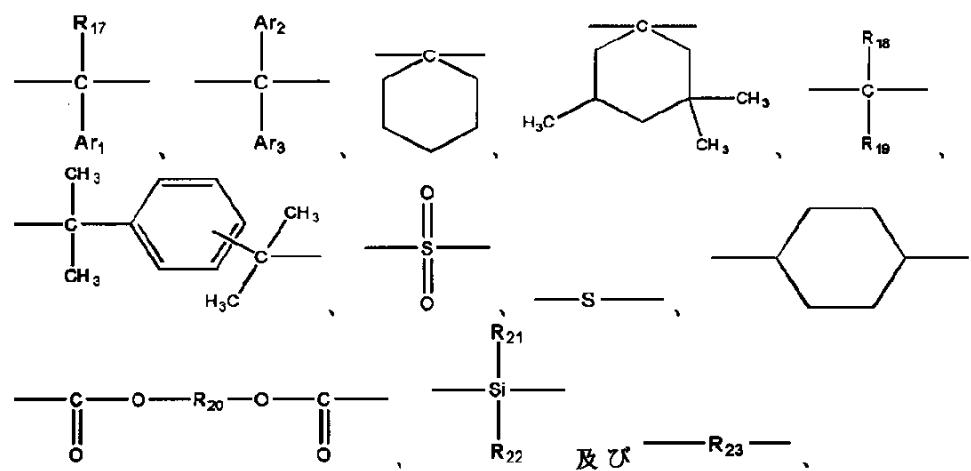
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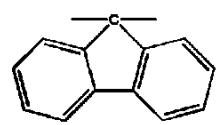
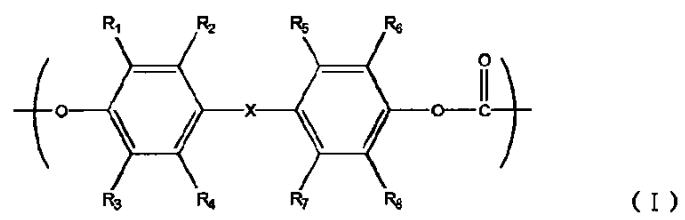
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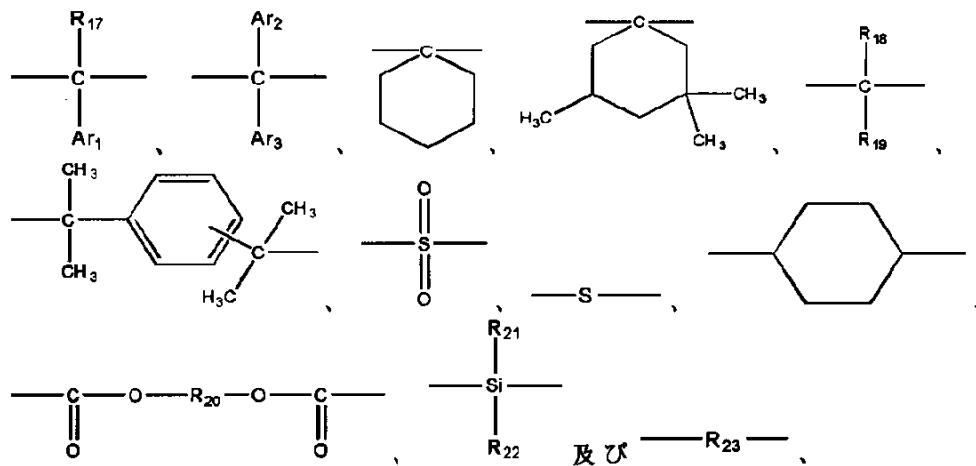
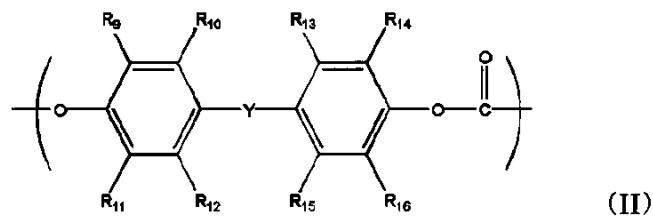
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(54)【発明の名称】 位相差フィルム

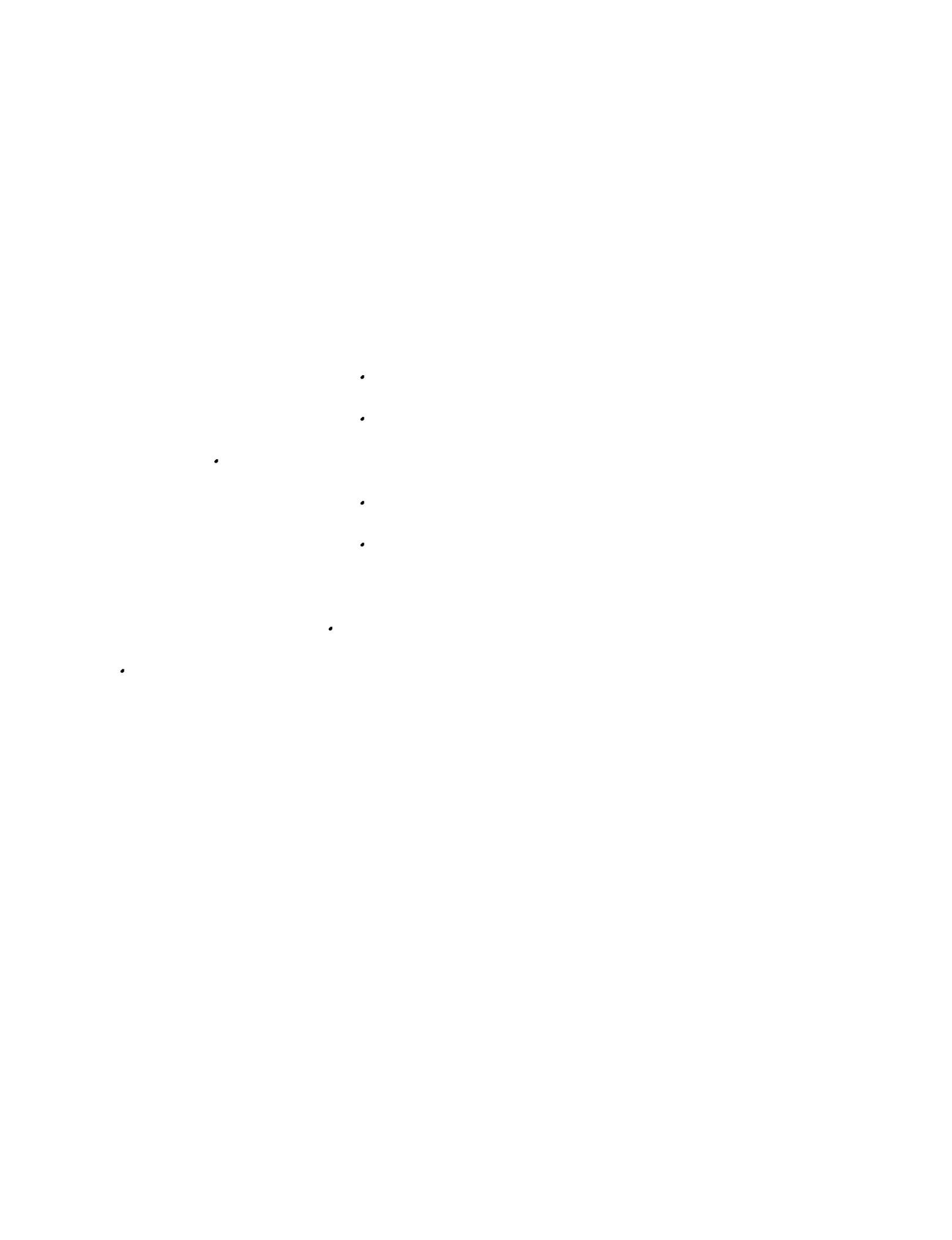


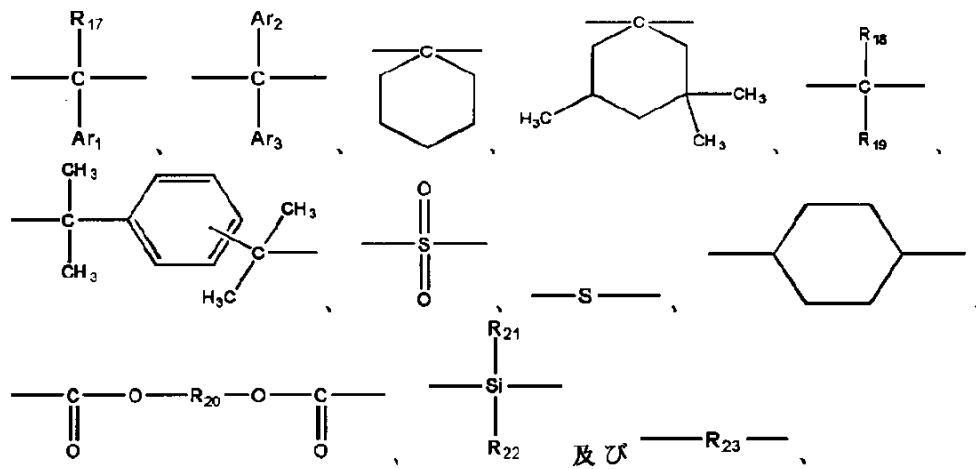
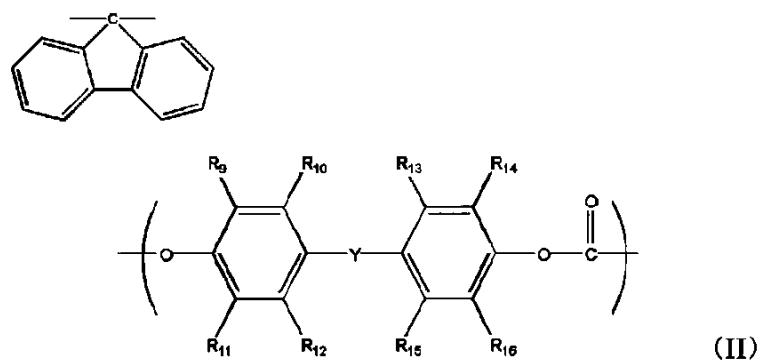
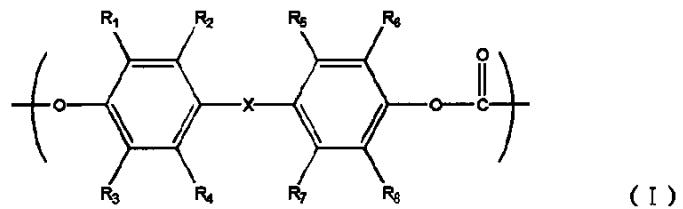












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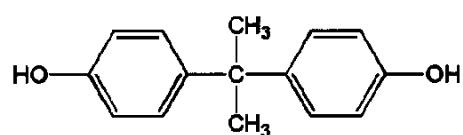
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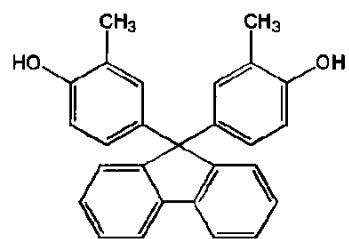
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モノマー [A]



モノマー [B]



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	実施例 1	実施例 2
高分子の $T_g$ (°C)	208	226
R(450)(nm)	124.6	96.7
R(550)(nm)	140.0	125.6
R(650)(nm)	149.8	135.6
R(450)/R(550)	0.89	0.77
R(650)/R(550)	1.05	1.08
K(450)(nm)	-62.4	-48.6
K(550)(nm)	-69.5	-63.6
K(650)(nm)	-73.7	-67.1
ヘーズ (%)	0.3	0.3
全光線透過率 (%)	90	90
延伸後膜厚 ( $\mu$ m)	100	92

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